

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jacob Rohwer on 10 March 2011.

The application has been amended as follows:

Claim 1. A system for data presentation, comprising:

a processing device;  
a sorting component that is operable by the processing device, the sorting component being configured to determine categories relating to one or more data items for display on a display device, wherein the data items are structured within a hierarchical folder structure; and

a cluster component that is operable by the processing device, the cluster component being configured to facilitate grouping the categories according to discretized states, wherein the discretized states are a property which is assigned to each grouped category via the cluster component, to control visible output to the display device, and wherein the discretized states include a packed state that, when assigned, causes grouped data items from multiple different folders in a grouped category to be displayed as one icon that represents the multiple grouped data items in the grouped

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category to which the packed state is assigned, ~~when viewed from any folder which contains at least one of the data items in the grouped category~~, and an unpacked state that, when assigned, causes each data item in the grouped category to be displayed as one icon that represents the grouped category in a tree display and as individual icons when viewed in a contents display, wherein the grouped data items are displayed as a union with other items from a particular folder of the multiple different folders when viewed in the contents displayed with respect to the particular folder.

Claim 16. The system of claim 1, wherein ~~the cluster component is further configured to create the grouped data items are an overlapping group that includes content from the multiple different folders various groups.~~

Claim 17. The system of claim 16, wherein the overlapping group includes a recycle group ~~and or~~ an archive group.

Claim 18. The system of claim 16, further comprising an interface configured to present a view of the grouped category that includes at least one group A and at least one group B that shows items in A minus B and a view of subgroup B, which presents data items within an intersection of A and B.

Claim 19. canceled

Claim 25. A system for organizing data at a computerized display, comprising:

one or more processors;

means operable by the one or more processors for determining a state for a subset of data items from multiple folders, wherein the data items are organized in a hierarchical directory tree structure;

means operable by the one or more processors for assigning the state as a property to the subset of data items; and

means operable by the one or more processors for displaying each data item in the subset according to the determined state, wherein, when the state is determined to be in a packed state, the displaying means causes the data items in the subset to be displayed as one icon that represents all of the data items in the subset, when viewed from any directory location which contains at least one of the data items in the subset and wherein, when the state is determined to be in an unpacked state the displaying means causes the data items in the subset to be one icon that represents all of the data items in the subset in a tree display and as respective individual icons when viewed in a contents display, ~~and which further causes data items from a subfolder that is determined to be in the unpacked state, to display as the~~ respective individual icons ~~being displayed as a union with other alongside~~ data items of a parent folder that are determined to be in the unpacked state.

Claim 28. A method for controlling visible output to a display, comprising:

determining a state of a collection of data items from multiple different folders,  
the state being determined from states comprising a packed state and an unpacked  
state, wherein the collection of data items are organized in a hierarchical structure;  
grouping the data items according to the determined state;  
displaying a group of data items as one icon that represents the multiple data  
items in the group of data items, in the display when the group is viewed from any folder  
within the hierarchical structure that contains at least one of the data items in the group  
of data items, when the group of data items is determined to be associated with the  
packed state;  
displaying the group of data items as one icon that represents the multiple data  
items in the group of data items in a tree view and as individual icons in a contents view  
that displays the individual icons as a union with other data items from a particular folder  
of the multiple different folders when viewed in the contents display with respect to the  
particular folder, when the group of data items is determined to be associated with the  
unpacked state;  
switching the group of data items from being associated with the packed state to  
the unpacked state or vice versa.

Claim 31. The method of claim 29, further comprising displaying the group of  
data items as an overlapping group.

#### **Description Of The Prior Art Of Record**

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2. Below is a description and summary of the prior art of record:

Sakai (US 20040056903 A1):

[0008] The concept of folders has been used for organizing and cataloguing files, and by creating folders in a hierarchical structure the information can be hierarchically organized according to purpose or content.

[0242] More specifically, the multiple linked files are grouped using a group icon which can then be clicked to automatically open, edit, and display the multiple files and applications in the group. Files can be linked by, for example, dragging and dropping a child file on a parent file.

[0266] In other words, the directory matrix used for such files in this embodiment of the invention is defined by the category (file name or directory path, e.g.) used as a directory management parameter at the OS level, and the category (such as a user-defined object category) used as a directory management parameter at the application level.

[0269] When "show matrix" is selected from a menu with the directory management method of the present invention, however,

both subdirectories and files in a selected directory (folder) are displayed as shown in FIG. 50. The horizontal axis at this time is a single category. An inverted triangle denotes there are additional files that do not fit in the display.

Ortega et al. (US 6,489,968 B1):

(column 2, lines 24-26) The popular nodes are preferably called to the attention of users by automatically "elevating" the nodes along child-parent paths for display within the browse structure.

Amro (US 5,797,139)

(column 1, line 66 - column 2, line 15) In accordance with the present invention, a method, apparatus, and article of manufacture direct a computer system to display files using a parent identifier (e.g., icon) representing the file's parent and a type identifier (e.g., border surrounding the icon) representing a file's type (e.g., executable, document, bitmap, etc). The method includes the first computer-implemented step of in response to a command from user controls (e.g., clicking a mouse button to open a directory) to control a directory having files stored therein, locating in memory each file's type identifier. The second step includes locating in memory a parent identifier

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for each file, wherein each parent identifier identifies a file's parent application. The third step includes displaying each file using its parent application's icon. The fourth step includes building a unique border around each icon using the type identifier for each file, thereby displaying each file based on the type of the file.

Margaret Gardner MacPhail (EP 0 371 602 A1):

(page 2, paragraph 1) This invention relates to methods of managing stapled documents in an information processing system and to methods of filing stapled documents within a document stored in the information processing system.

(page 4, indented paragraph 5) A physical document in a physical folder is a folder-only document. ... However, electronic documents can logically exist in multiple places at the same time. Therefore, a document can appear to be in more than one folder and standing on its own all at the same time.

### **Reasons For Allowance**

3. The following is an examiner's statement of reasons for allowance:

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Independent claims 1 is allowable over the prior art of record, specifically, the prior art of record fails to disclose:

a packed state that, when assigned, causes grouped data items from multiple different folders in a grouped category to be displayed as one icon that represents the grouped data items in the grouped category to which the packed state is assigned, and an unpacked state that, when assigned, causes each data item in the grouped category to be displayed as one icon that represents the grouped category in a tree display and as individual icons when viewed in a contents display, wherein the grouped data items are displayed as a union with other items from a particular folder of the multiple different folders when viewed in the contents displayed with respect to the particular folder.

Independent claims 25 is allowable over the prior art of record, specifically, the prior art of record fails to disclose:

be in a packed state, the displaying means causes the data items in the subset to be displayed as one icon that represents all of the data items in the subset, when viewed from any directory location which contains at least one of the data items in the subset and wherein, when the state is determined to be in an unpacked state the displaying means causes the data items in the subset to be one icon that represents all of the data items in the subset in a tree display and as respective individual icons when

viewed in a contents display, the respective individual icons being displayed as a union with other data items of a folder that are determined to be in the unpacked state.

Independent claims 28 is allowable over the prior art of record, specifically, the prior art of record fails to disclose:

displaying a group of data items as one icon that represents the multiple data items in the group of data items, in the display when the group is viewed from any folder within the hierarchical structure that contains at least one of the data items in the group of data items, when the group of data items is determined to be associated with the packed state;

displaying the group of data items as one icon that represents the multiple data items in the group of data items in a tree view and as individual icons in a contents view that displays the individual icons as a union with other data items from a particular folder of the multiple different folders when viewed in the contents display with respect to the particular folder, when the group of data items is determined to be associated with the unpacked state;

switching the group of data items from being associated with the packed state to the unpacked state or vice versa.

The respective dependent claims add further limitations to the allowable subject matter of the independent claims and are, therefore, allowable over the prior art of record.

Specifically, the prior art fails to clearly teach or fairly suggest the combination of elements as recited in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN HEFFINGTON whose telephone number is (571)270-1696. The examiner can normally be reached on 8:30 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boris M. Pesin can be reached on 571-272-4070. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Boris Pesin/  
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